IN THE CLAIMS:

The following listing of the claims replaces all previous versions:

- 1. (Cancelled)
- 2. (Currently Amended) The electronic watermark inserter as defined in claim 1 An electronic watermark inserter for inserting an electronic watermark pattern or patterns for identifying a furnisher of a picture or image, termed "picture" collectively, into data of said picture, said inserter comprising:

an electronic watermark pattern inserter for inserting previously generated key information pattern or patterns into a picture or pictures into which said electronic watermark pattern or patterns have been inserted and for transmitting the resulting picture or pictures, wherein said key information patterns are arranged at preset intervals, and wherein, upon insertion, said key information patterns are shifted in respective random directions.

- 3. (Cancelled)
- 4. (Previously Presented) The electronic watermark inserter as defined in claim 2 further comprising:

picture analysis means for analyzing an input picture for determining the insert ion strength of Said electronic watermark pattern into each pixel of said picture;

said electronic watermark pattern or patterns and said key information patterns being inserted in accordance with said insertion strength information.

5. (Cancelled)

6.	(Currently Amended) The electronic watermark detector as defined in claim 5-An
<u>electr</u>	onic watermark detector for detecting an electronic watermark pattern or patterns for
speci:	fying a furnisher for a picture or image, termed "picture" collectively, inserted into data of
said p	icture, comprising:
	means for detecting a key information pattern or patterns inserted into said data of the
pictur	re along with an electronic watermark pattern or patterns;
	means for generating parameters required for detecting the electronic watermark pattern
or pat	terns from the key information as detected; and
	means for detecting said electronic watermark pattern or patterns from said picture based
on the	e parameters generated in said parameter generating means,
	_wherein the key information patterns comprise patterns that are arranged at a preset
interv	al at the outset and that, when inserted, are shifted each in a random direction.

7. (Previously Presented) An electronic watermark system comprising;

an electronic watermark inserter for inserting an electronic watermark pattern or patterns for identifying a furnisher of a picture or image, termed "picture" collectively, into data of said picture, said inserter comprising:

an electronic watermark pattern inserter for inserting previously generated key information pattern or patterns into a picture or pictures into which said electronic watermark pattern or patterns have been inserted and for transmitting the resulting picture or pictures, and an electronic watermark detector for detecting an electronic watermark pattern or patterns for specifying a furnisher for a picture or image, termed "picture" collectively, inserted into data of said picture, comprising:

means for detecting a key information pattern or patterns inserted into said data of the picture along with an electronic watermark pattern or patterns;

means for generating parameters required for detecting the electronic watermark pattern or patterns from the key information as detected; and

means for detecting said electronic watermark pattern or patterns from said picture based on the parameters generated in said parameter generating means.

8. (Cancelled)

9.	(Curr	rently Amended) The method as defined in claim 8-A method for inserting an
<u>elect</u>	ronic wa	atermark pattern or patterns for identifying a furnisher of a picture or image, termed
"pict	ure" col	lectively, into data of said picture, said method comprising the steps of:
	(a)	providing a key information pattern or patterns,
	(b)	inserting the previously provided key information pattern or patterns into a picture
or pi	ctures, i	nto which an electronic watermark pattern or patterns have been inserted, and
	(c)	transmitting the resulting nicture or nictures

wherein sa	id key information patterns are arranged at preset intervals, and wherein, upon
insertion, said key	information patterns are shifted in random directions, respectively.
10. (Cancelled	
11. (Previously	Presented) The method as defined in claim 9 further comprising:
a step of ar	alyzing an input picture or pictures for determining the insertion strength of
said electronic was	ermark pattern or patterns per each pixel or section of said picture or pictures
a step of in	serting said electronic watermark pattern or patterns and said key information
pattern or patterns	in accordance with said insertion strength information.
12. (Cancelled	
13. (Currently	Amended) The method as defined in claim 12 A method for detecting an
electronic waterma	ark pattern for specifying a furnisher for a picture or image, termed "picture"
collectively, insert	ed into data of said picture, comprising the steps of:
(a) det	ecting key information pattern or patterns inserted into said data of the picture
or pictures alone w	vith said electronic watermark pattern or patterns;
(b) gen	erating parameters required for detecting the electronic watermark pattern or
patterns from the l	ey information pattern or patterns as detected; and
(c) dete	ecting said electronic watermark pattern or patterns from said picture or
pictures based on t	he parameters generated,

wherein said key information patterns comprise patterns that are arranged at a preset interval at the outset and that, when inserted, are shifted in a random direction, respectively.

- 14. (Previously Presented) An electronic watermark inserter for inserting an electronic watermark pattern or patterns for identifying a furnisher of a picture into data of said picture, said inserter comprising:
- (a) an electronic watermark pattern inserter for inserting previously generated key information pattern into a picture or pictures into which said electronic watermark pattern has been inserted and for transmitting the resulting picture or pictures,
- (b) means for providing said key information pattern in a predetermined specific arrangement of patterns, and
- (c) means for shifting, upon insertion, said patterns in random directions, pattern by pattern.
- 15. (Previously Presented) The electronic watermark inserter as defined in claim 14 further comprising:

a picture analysis unit analyzing an input picture for determining the insertion strength of said electronic watermark pattern into each pixel of said picture;

said electron watermark pattern and said key information pattern being inserted in accordance with said insertion strength information.

16. (Cancelled)

17. (Currently Amended) The electronic watermark detector as defined in claim 16-An
electronic watermark detector for detecting an electronic watermark pattern for specifying a
furnisher for a picture inserted into data of said picture, comprising:
(a) a key information pattern detecting unit detecting a key information pattern inserted
into said data of the picture along with an electronic watermark pattern;
(b) a parameter generator generating parameters required for detecting the electronic
watermark pattern from the key information as detected;
(c) a watermark pattern detector detecting said electronic watermark pattern from said
picture based on the parameters generated in said parameter generator,
wherein the key information pattern comprises patterns that are arranged at a preset
interval at the outset and that, when inserted, are shifted each in a random direction.
18. (Original) A method for inserting an electronic watermark pattern or patterns for
identifying a furnisher of a picture or image, termed "picture" collectively, into data of said
picture, said method comprising the steps of:
(a) providing a key information pattern or patterns;
(b) inserting the previously provided key information pattern or patterns into a picture
or pictures, into which an electronic watermark pattern or patterns have been inserted;
(c) transmitting the resulting picture or pictures;
wherein said key information patterns are arranged at present intervals, and wherein,
when inserted, said key information patterns are shifted in random directions, pattern by pattern.

19. (Previously Presented) The method as defined in claim 18 further comprising:

a step of analyzing an input picture or pictures for determining the insertion strength of said electronic watermark pattern or patterns per each pixel or section of said picture or pictures; a step of inserting said electronic watermark pattern or patterns and said key information

pattern or patterns in accordance with said insertion strength information.

- 20. (Original) A method for detecting an electronic watermark pattern for specifying a furnisher for a picture inserted into data of said picture, comprising the steps of:
- (a) detecting key information pattern or patterns inserted into said data of the picture or pictures along with said electronic watermark pattern or patterns;
- (b) generating parameters required for detecting the electronic watermark pattern from the key information pattern as detected; and
- (c) detecting said electronic watermark pattern from said picture based on the parameters generated,

wherein said key information pattern comprises patterns that are arranged at a present interval at the outset and that, when inserted, are shifted in a random direction, pattern by pat tern.